

FIG. 1

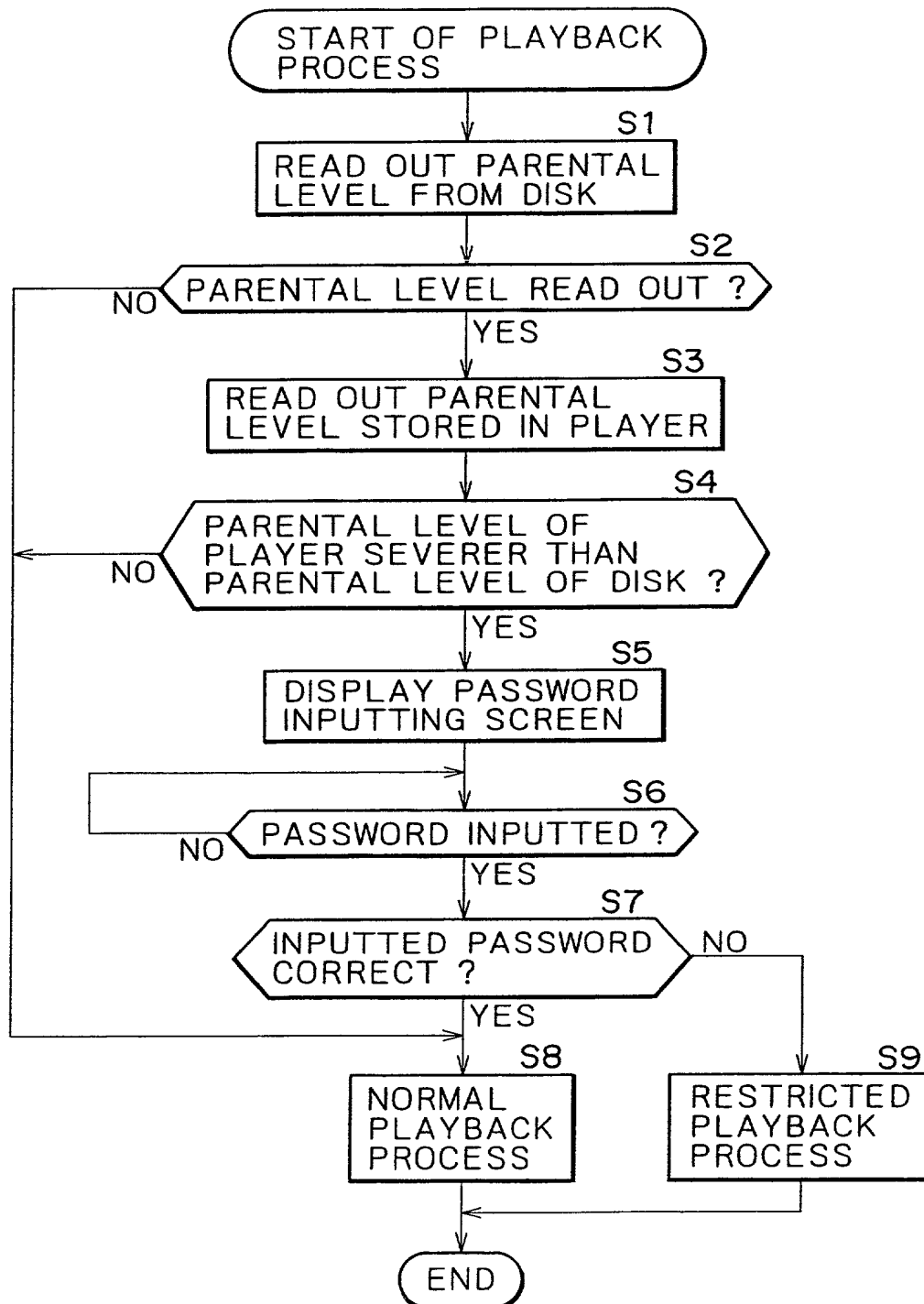
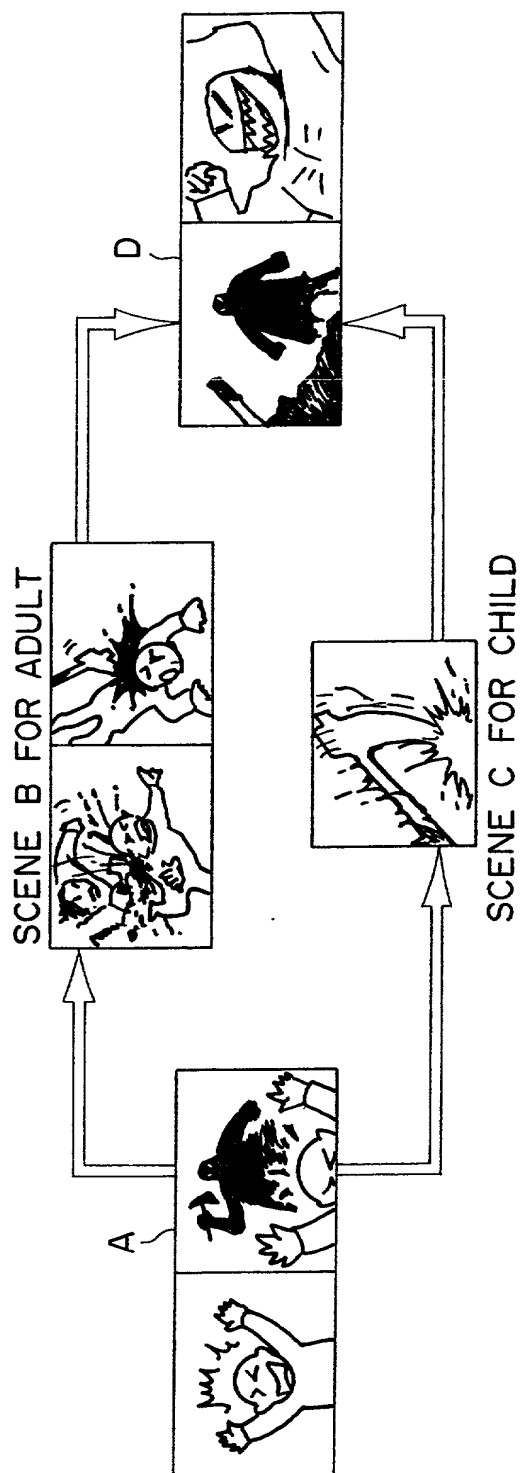


FIG. 2



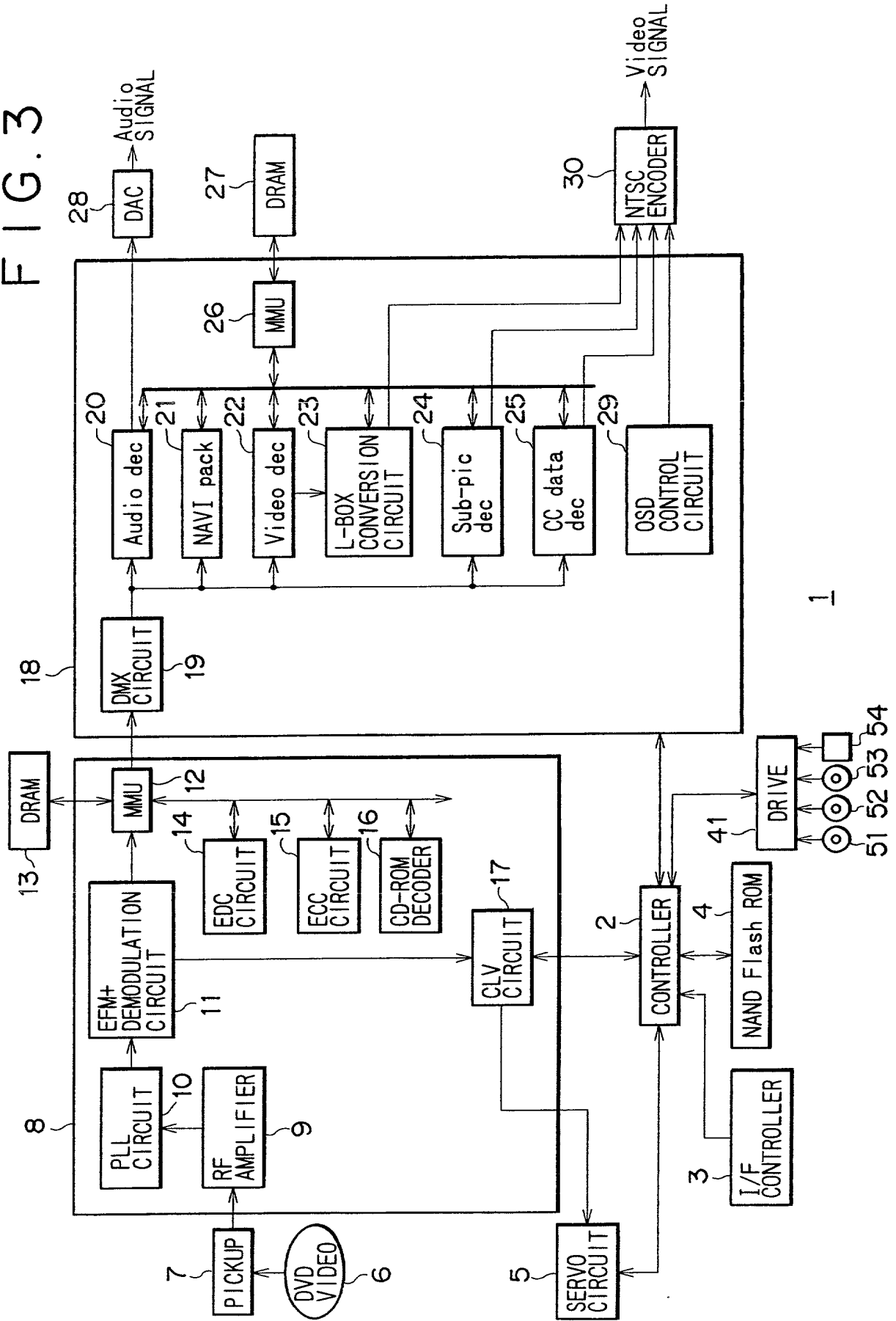
[illegible]

FIG. 4

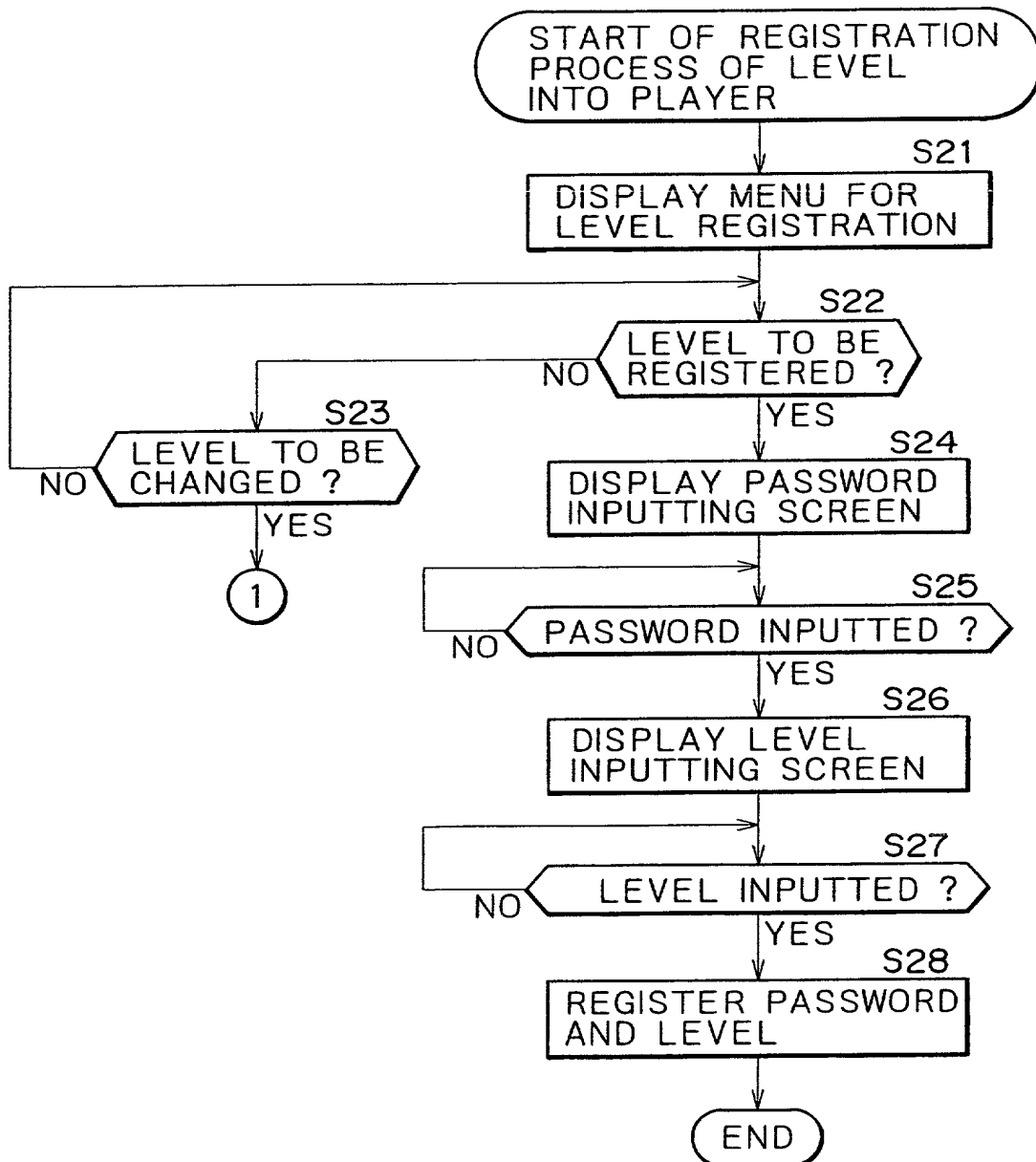


FIG. 5

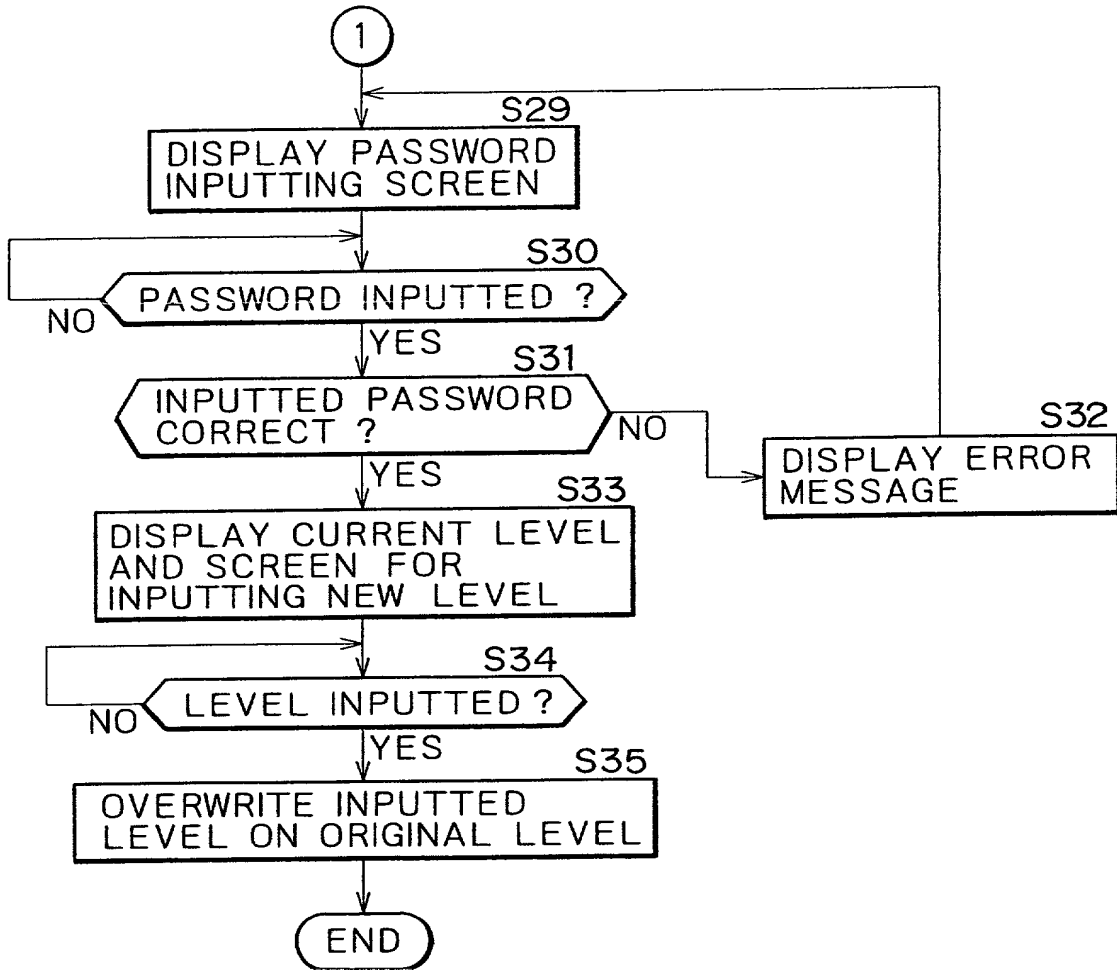


FIG. 6

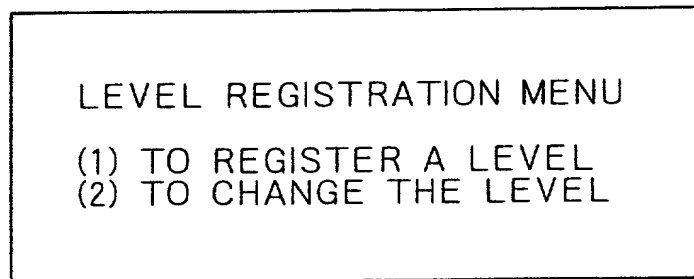


FIG. 7

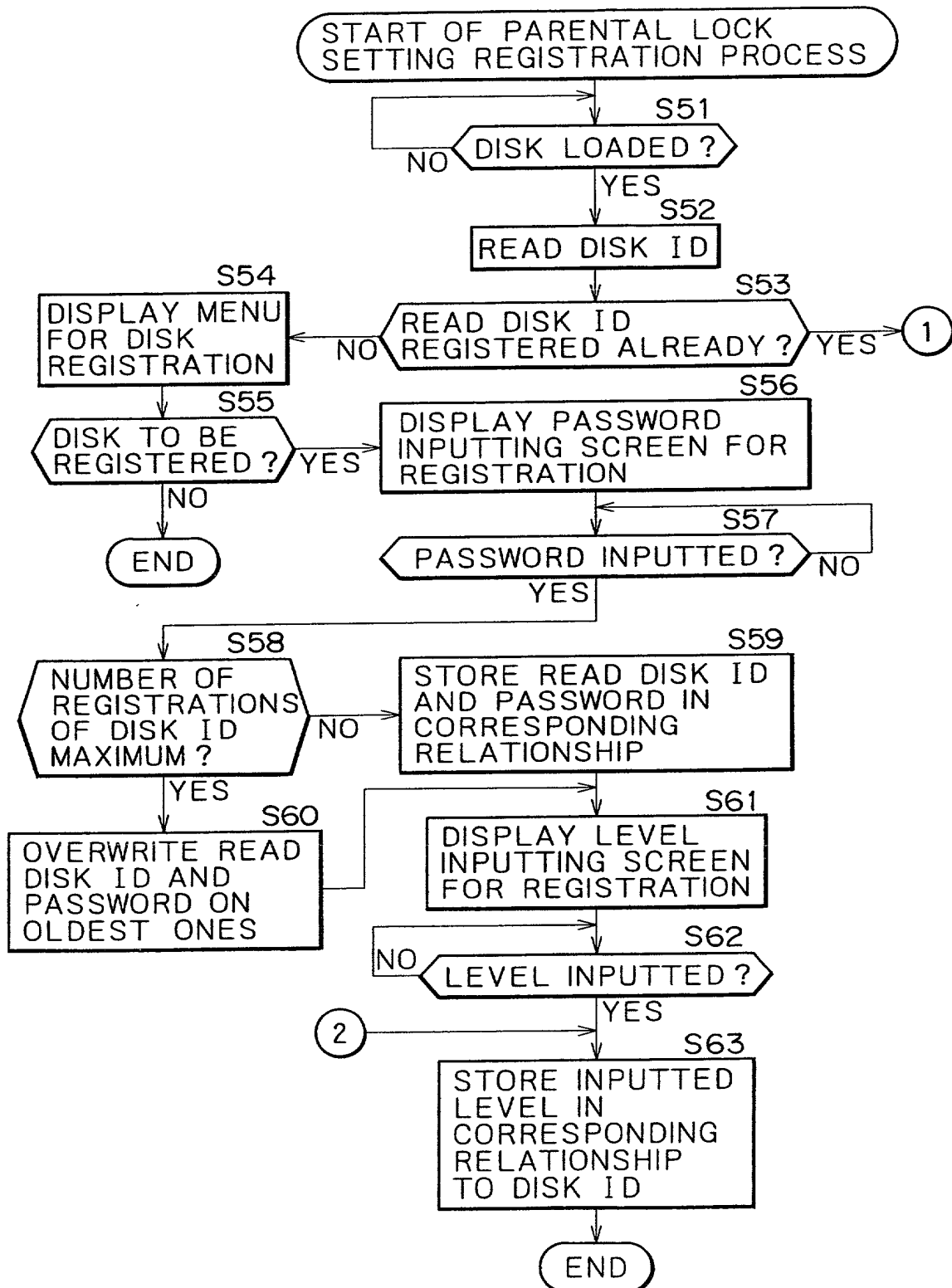


FIG. 8

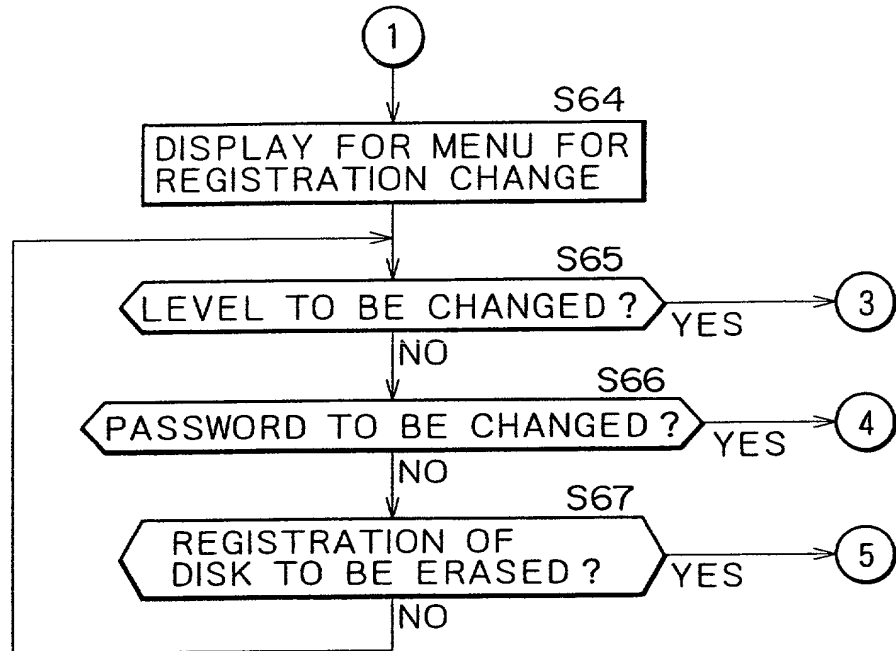


FIG. 9

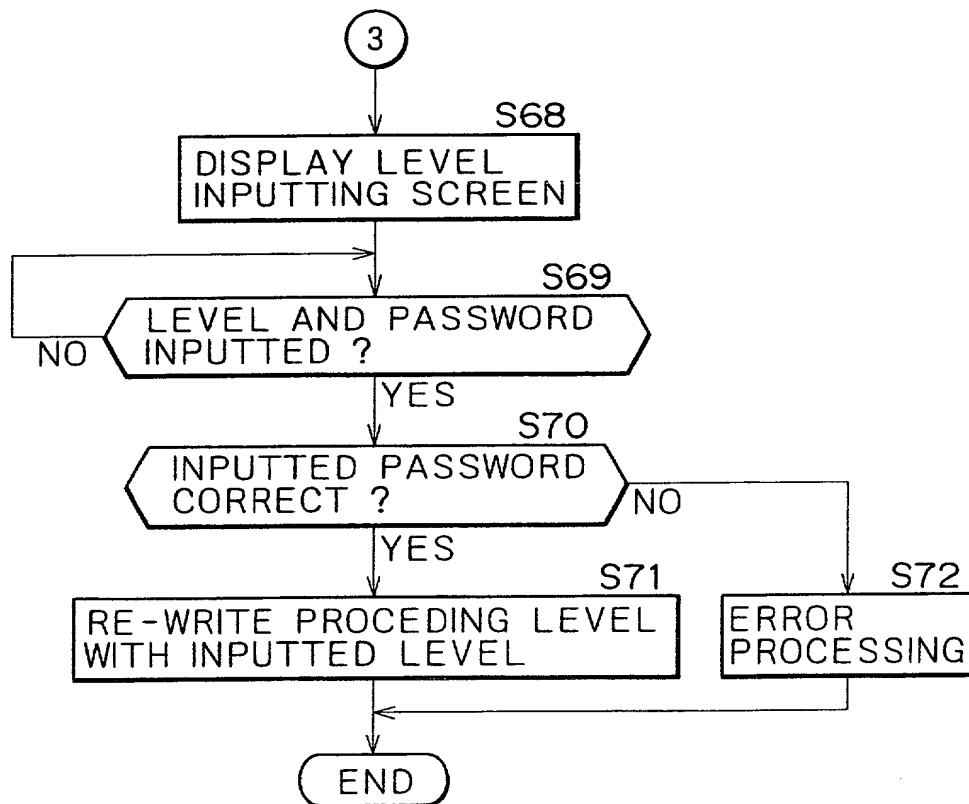


FIG.10

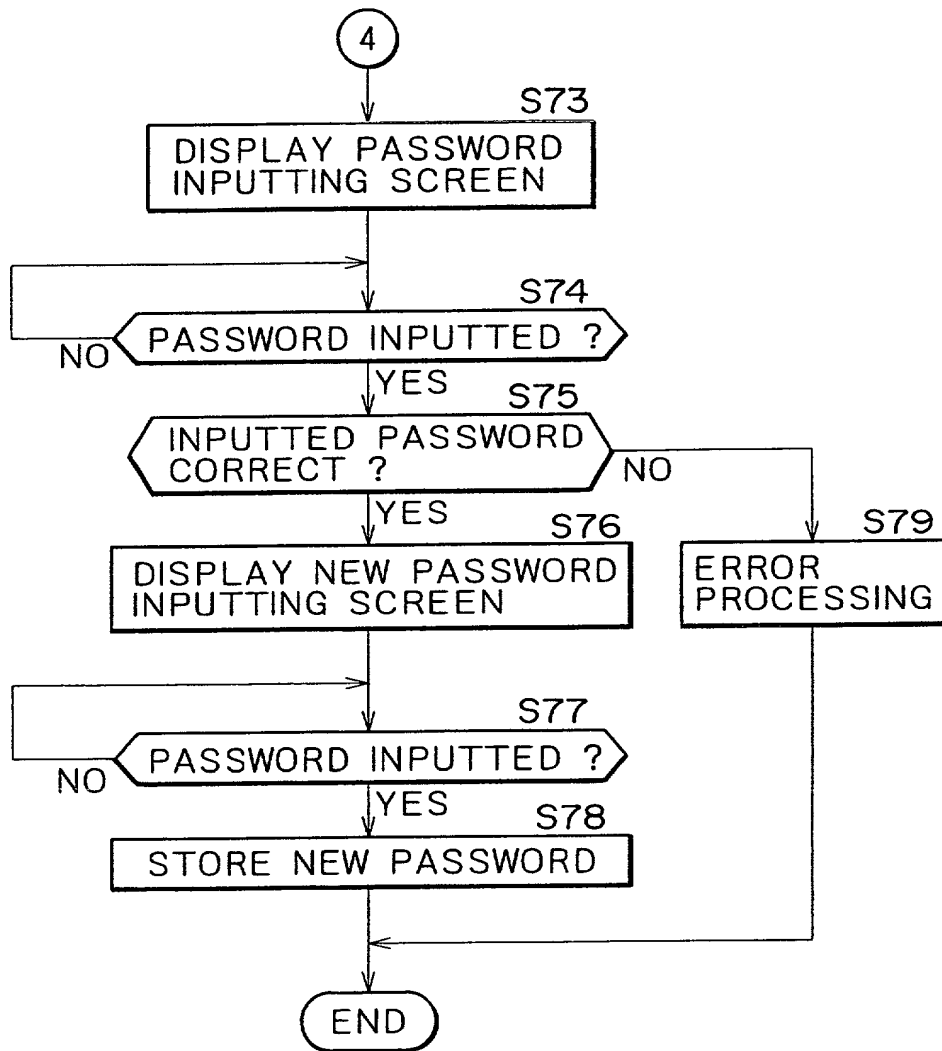


FIG. 11

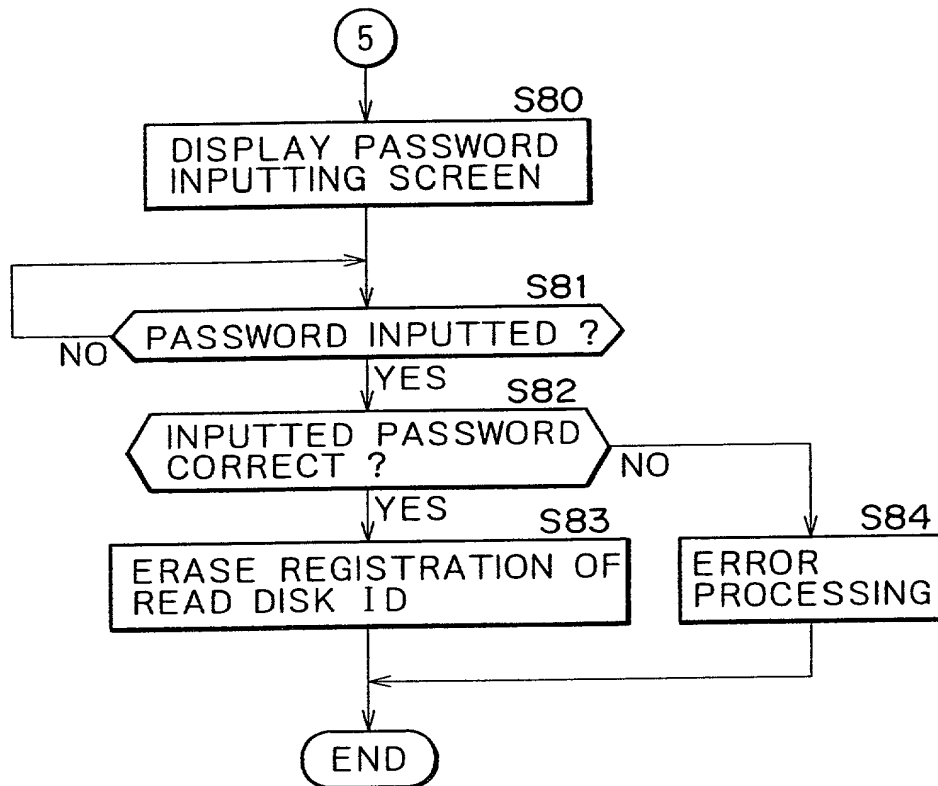


FIG.12

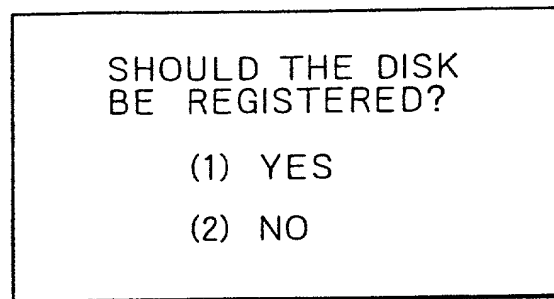


FIG.13

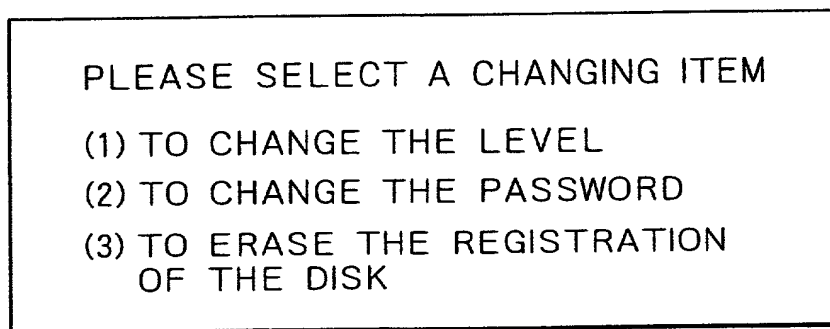


FIG.15

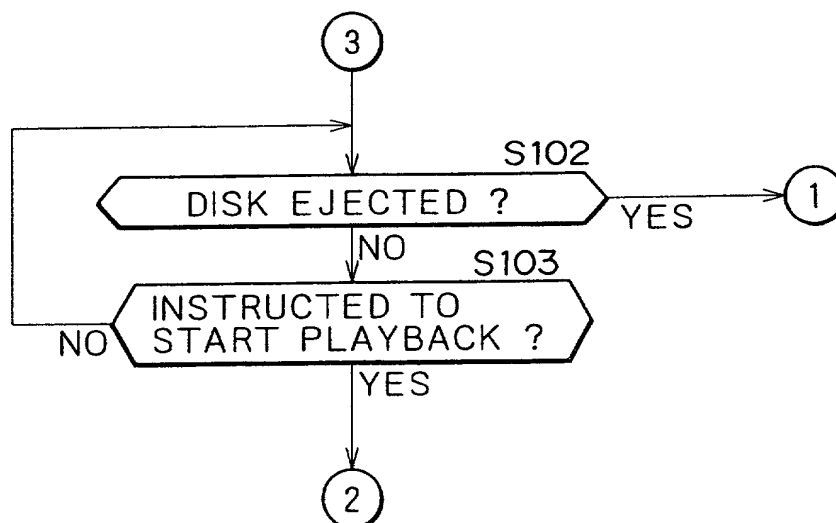


FIG. 14

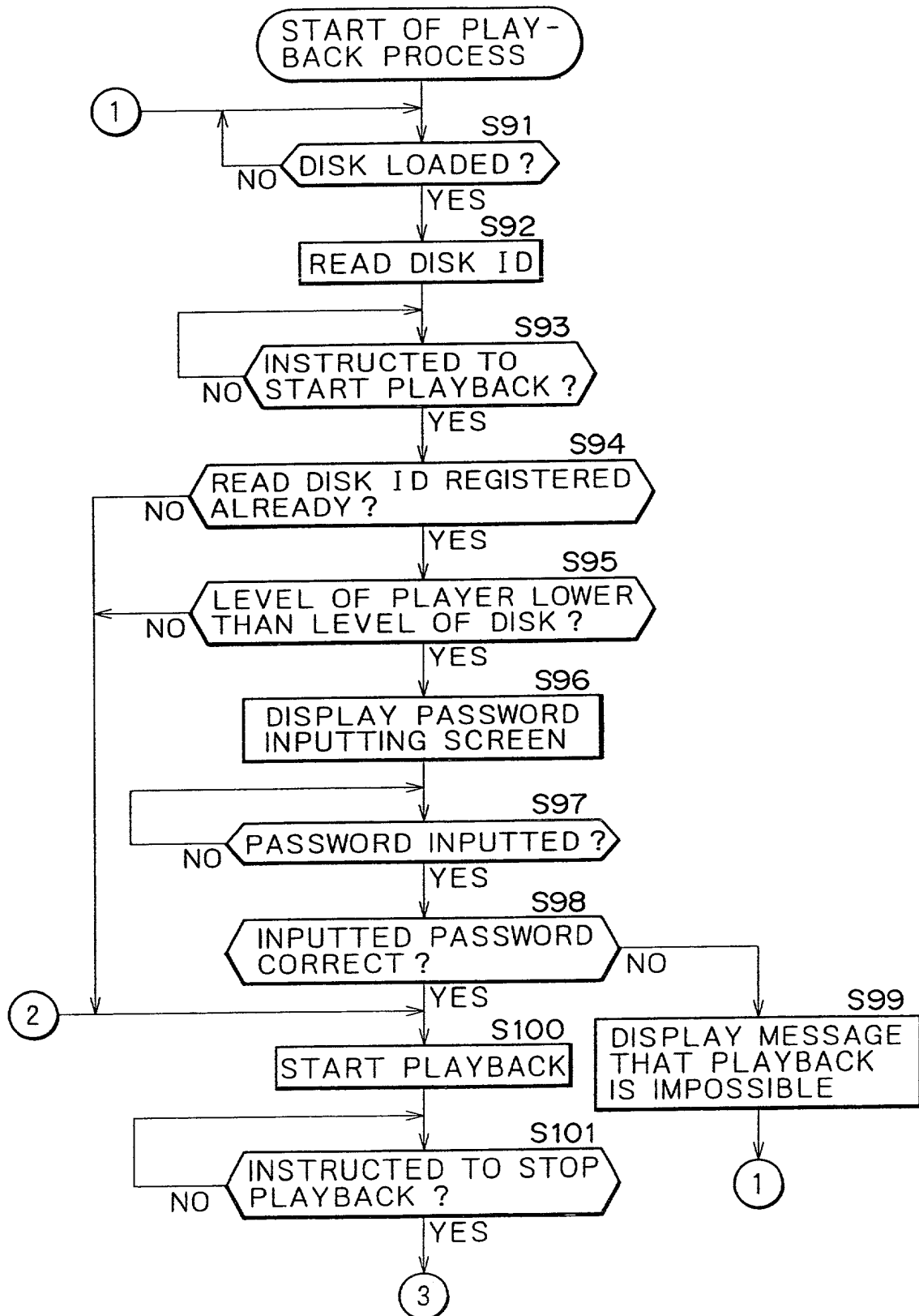


FIG. 17 is a block diagram of a video manager information management table (VMGI_MAT) in accordance with the present invention. The table is organized into three main sections: a title search pointer table (TT_SRPT), a video manager menu PGC I unit table (VMGM_PGC_I_UT), and a parental management information table (PTL_MAIT). The title search pointer table (TT_SRPT) is essential. The video manager menu PGC I unit table (VMGM_PGC_I_UT) is essential when VMGM_VOBS is present. The parental management information table (PTL_MAIT) is optional. The video title set attribute information table (VTS_ATTRT) is essential. The text data manager (TXTDT_MG) is optional. The video manager menu cell address table (VMGM_C_ADT) is essential when VMGM_VOBS is present. The video manager menu video object unit address map (VMGM_VOBU_ADMAP) is essential when VMGM_VOBS is present.

FIG. 17

VIDEO MANAGER INFORMATION (VMGI) (ESSENTIAL)	VIDEO MANAGER INFORMATION MANAGEMENT TABLE (VMGI_MAT) (ESSENTIAL)
VIDEO OBJECT SET FOR VMG MENU (VMGM_VOBS) (OPTIONAL)	TITLE SERCH POINTER TABLE (TT_SRPT) (ESSENTIAL)
BACKUP OF VIDEO MANAGER INFORMATION (VMGI_BUP) (ESSENTIAL)	VIDEO MANAGER MENU PGC I UNIT TABLE (VMGM_PGC_I_UT) (ESSENTIAL WHEN VMGM_VOBS IS PRESENT)
	PARENTAL MANAGEMENT INFORMATION TABLE (PTL_MAIT) (OPTIONAL)
	VIDEO TITLE SET ATTRIBUTE INFORMATION TABLE (VTS_ATTRT) (ESSENTIAL)
	TEXT DATA MANAGER (TXTDT_MG) (OPTIONAL)
	VIDEO MANAGER MENU CELL ADDRESS TABLE (VMGM_C_ADT) (ESSENTIAL WHEN VMGM_VOBS IS PRESENT)
	VIDEO MANAGER MENU VIDEO OBJECT UNIT ADDRESS MAP (VMGM_VOBU_ADMAP) (ESSENTIAL WHEN VMGM_VOBS IS PRESENT)

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RBP		CONTENTS	BYTE NUMBER
0 to 11	VMG_ID	VMG IDENTIFIER	12 BYTES
12 to 15	VMG_EA	END ADDRESS OF VMG	4 BYTES
16 to 27	reserved	reserved	12 BYTES
28 to 31	VMGI_EA	END ADDRESS OF VMGI	4 BYTES
32 to 33	VERN	VERSION NUMBER OF DVD VIDEO SPECIFICATIONS	2 BYTES
34 to 37	VMG_CAT	VIDEO MANAGER CATEGORY	4 BYTES
38 to 45	VLMS_ID	VOLUME SET IDENTIFIER	8 BYTES
46 to 61	reserved	reserved	16 BYTES
62 to 63	VTS_Ns	VIDEO TITLE SET NUMBER	2 BYTES
64 to 95	PVR_ID	IDENTIFIER UNIQUE TO PROVIDER	32 BYTES
96 to 103	POS_CD	POS CODE	8 BYTES
104 to 127	reserved	reserved	24 BYTES
128 to 131	VMGI_MAT_EA	END ADDRESS OF VMGI_MAT	4 BYTES
132 to 135	FP_PGC_I_SA	TOP ADDRESS OF FP_PGC_I	4 BYTES
136 to 191	reserved	reserved	56 BYTES
192 to 195	VMGM_VOBS_SA	TOP ADDRESS OF VMGM_VOBS	4 BYTES
196 to 199	TT_SRPT_SA	TOP ADDRESS OF TT_SRPT	4 BYTES
200 to 203	VMGM_PGC_I_UT_SA	TOP ADDRESS OF VMGM_PGC_I_UT	4 BYTES
204 to 207	PTL_MA_I_SA	TOP ADDRESS OF PTL_MA_I	4 BYTES
208 to 211	VTS_ATRT_SA	TOP ADDRESS OF VTS_ATRT	4 BYTES
212 to 215	TXTDT_MG_SA	TOP ADDRESS OF TXTDT_MG	4 BYTES
216 to 219	VMGM_C_ADT_SA	TOP ADDRESS OF VMGM_C_ADT	4 BYTES
220 to 223	VMGM_VOBU_ADMAP_SA	TOP ADDRESS OF VMGM_VOBU_ADMAP	4 BYTES
224 to 255	reserved	reserved	32 BYTES
256 to 257	VMGM_V_ATR	VIDEO ATTRIBUTE OF VMGM	2 BYTES
258 to 259	VMGM_AST_Ns	AUDIO STREAM NUMBER OF VMGM	2 BYTES
260 to 267	VMGM_AST_ATR	AUDIO STREAM ATTRIBUTE OF VMGM	8 BYTES
268 to 323	reserved	reserved	56 BYTES
324 to 339	reserved	reserved	16 BYTES
340 to 341	VMGM_SPST_Ns	SUB PICTURE STREAM NUMBER OF VMGM	2 BYTES
342 to 347	VMGM_SPST_ATR	SUB PICTURE STREAM ATTRIBUTE OF VMGM	6 BYTES
348 to 1023	reserved	reserved	676 BYTES
1024 to 2291(max.)	FP_PGC_I	FIRST PLAY PGC_I	0 or (236 to 1268) BYTES

FIG. 19

VIDEO TITLE SET INFORMATION (VTSI) (ESSENTIAL)	VIDEO TITLE SET INFORMATION MANAGEMENT TABLE (VTSI_MAT) (ESSENTIAL)
VIDEO OBJECT SET FOR VIDEO TITLE SET MENU (VTSM_VOBS) (OPTIONAL)	VIDEO TITLE SET PTT SEARCH POINTER TABLE (VTS_PTT_SRPT) (ESSENTIAL)
VIDEO OBJECT SET FOR VIDEO TITLE SET TITLE (VTSTT_VOBS) (ESSENTIAL)	VIDEO TITLE SET PROGRAM CHAIN INFORMATION TABLE (VTS_PGCIT) (ESSENTIAL)
BACKUP OF VIDEO TITLE SET INFORMATION (VTSI_BUP) (ESSENTIAL)	VIDEO TITLE SET MENU PGC1 UNIT TABLE (VTSM_PGC1_UT) (ESSENTIAL WHEN VTSM_VOBS IS PRESENT)
	VIDEO TITLE SET TIME MAP TABLE (VTS_TMPT) (OPTIONAL)
	VIDEO TITLE SET CELL ADDRESS TABLE (VTSM_C_ADT) (ESSENTIAL WHEN VTSM_VOBS IS PRESENT)
	VIDEO TITLE SET MENU VIDEO OBJECT UNIT ADDRESS MAP (VTSM_VOBU_ADMAP) (ESSENTIAL WHEN VMGM_VOBS IS PRESENT)
	VIDEO TITLE SET CELL ADDRESS TABLE (VTS_C_ADT) (ESSENTIAL)
	VIDEO TITLE SET VIDEO OBJECT UNIT ADDRESS MAP (VTS_VOBU_ADMAP) (ESSENTIAL)

FIG. 20

RBP		CONTENTS	BYTE NUMBER
0 to 11	VTI_ID	VTI IDENTIFIER	12 BYTES
12 to 15	VTI_EA	END ADDRESS OF VTI	4 BYTES
16 to 27	reserved	reserved	12 BYTES
28 to 31	VTI_EA	END ADDRESS OF VTI	4 BYTES
32 to 33	VERN	VERSION NUMBER OF DVD VIDEO SPECIFICATIONS	2 BYTES
34 to 37	VTI_CAT	VTI CATEGORY	4 BYTES
38 to 127	reserved	reserved	90 BYTES
128 to 131	VTI_MAT_EA	END ADDRESS OF VTI_MAT	4 BYTES
132 to 191	reserved	reserved	60 BYTES
192 to 195	VTSM_VOBS_SA	TOP ADDRESS OF VTSM_VOBS	4 BYTES
196 to 199	VTSTT_VOBS_SA	TOP ADDRESS OF VTSTT_VOBS	4 BYTES
200 to 203	VTI_PTT_SRPT_SA	TOP ADDRESS OF VTI_PTT_SRPT	4 BYTES
204 to 207	VTI_PGCIT_SA	TOP ADDRESS OF VTI_PGCIT	4 BYTES
208 to 211	VTSM_PGCI_UT_SA	TOP ADDRESS OF VTSM_PGCI_UT	4 BYTES
212 to 215	VTI_TMAPT_SA	TOP ADDRESS OF VTI_TMAPT	4 BYTES
216 to 219	VTSM_C_ADT_SA	TOP ADDRESS OF VTSM_C_ADT	4 BYTES
220 to 223	VTSM_VOBU_ADMAP_SA	TOP ADDRESS OF VTSM_VOBU_ADMAP	4 BYTES
224 to 227	VTI_C_ADT_SA	TOP ADDRESS OF VTI_C_ADT	4 BYTES
228 to 231	VTI_VOBU_ADMAP_SA	TOP ADDRESS OF VTI_VOBU_ADMAP	4 BYTES
232 to 255	reserved	reserved	24 BYTES
256 to 257	VTSM_V_ATR	VIDEO ATTRIBUTE OF VTSM	2 BYTES
258 to 259	VTSM_AST_Ns	AUDIO STREAM NUMBER OF VTSM	2 BYTES
260 to 267	VTSM_AST_ATR	AUDIO STREAM ATTRIBUTE OF VTSM	8 BYTES
268 to 323	reserved	reserved	56 BYTES
324 to 339	reserved	reserved	16 BYTES
340 to 341	VTSM_SPST_Ns	SUB PICTURE STREAM NUMBER OF VTSM	2 BYTES
342 to 347	VTSM_SPST_ATR	SUB PICTURE STREAM ATTRIBUTE OF VTSM	6 BYTES
348 to 511	reserved	reserved	164 BYTES
512 to 513	VTI_V_ATR	VIDEO ATTRIBUTE OF VTI	2 BYTES
514 to 515	VTI_AST_Ns	AUDIO STREAM NUMBER OF VTI	2 BYTES
516 to 579	VTI_AST_ATRT	AUDIO STREAM ATTRIBUTE TABLE OF VTI	64 BYTES
580 to 595	reserved	reserved	16 BYTES
596 to 597	VTI_SPST_Ns	SUB PICTURE STREAM NUMBER OF VTI	2 BYTES
598 to 789	VTI_SPST_ATRT	SUB PICTURE STREAM ATTRIBUTE TABLE OF VTI	192 BYTES
790 to 791	reserved	reserved	2 BYTES
792 to 983	VTI_MU_AST_ATRT	MULTI-CHANNEL AUDIO STREAM ATTRIBUTE TABLE OF VTI	192 BYTES
984 to 1023	reserved	reserved	40 BYTES
1024 to 2047	reserved	reserved	1024 BYTES